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## Building a W3 Scientific Database: Data Base of the Occurrence and Distribution of Pesticides in Chesapeake Bay

by William B. Feidt  
AgNIC Web Coordinator

### Background

The Agriculture Network Information Center (AgNIC)  
<<http://www.agnic.org/>>

seeks to facilitate the delivery of agriculture-related information to Internet users, mainly by means of the World Wide Web (W3). Our efforts have so far yielded five Web-based components:

- AgDB
- AGRICOLA Subject Category Codes
- Agricultural Conferences, Meetings, Seminars Calendar
- Directories of Experts in Agriculture
- Online Reference Service Pilot Project

Of these, AgDB is particularly relevant. It is a prototype database designed to deliver information about agricultural databases, datasets, and information systems. Such descriptive information is known as *metadata* and AgDB currently contains approximately 500 metadata records, each describing a distinct information resource.

Having gained some experience in the description of Net-based information products, we saw as a logical next step the creation of an exemplar of what we had, until now, only been describing. We also wanted to demonstrate the possibility of collaboration, between the agriculture researcher and the library, in delivering scientific information. An opportunity to do so presented itself this spring.

### Genesis

In May 1996 Dr. W. Edward Johnson (USDA, ARS, Beltsville Agricultural Research Center), Mr. Richard

Thompson (USDA, ARS, National Agricultural Library) and I met to discuss the possibility of putting up on the Web Dr. Johnson's *Data Base of the Occurrence and Distribution of Pesticides in Chesapeake Bay*. Dr. Johnson had extracted the relevant data from forty-nine published and unpublished studies that dealt with the occurrence of pesticides in the Chesapeake Bay, its estuaries, and its biota. He had normalized the data and synthesized it into a spreadsheet format. Since Dr. Johnson was particularly interested in making his work more widely available, we decided to proceed with the project. Dr. Johnson and I agreed to coordinate the project using electronic mail.

### Building Blocks

The source database was created using Microsoft's Excel® spreadsheet software. Fortunately, the software allowed the spreadsheet to be converted to a tab-delimited ASCII file. Both the main pesticide table and the bibliographic reference table were provided

### Contents of This Issue...

- ...Data Base...of Pesticides in Chesapeake Bay, pp. 1-7
- Cataloging of "Data Base of Pesticides...Bay," p. 7
- Access to World-Class Canadian Library Collections, p. 8
- Canadian Ag Library Opens Archival Collection, pp. 8-9
- AICHE Journal Needed, p. 9
- NAL Ends Bulletin Board System, p. 9
- Announcing the Availability of the CAIT Demo, p. 9
- FY96 NAL Support for 1890 Land-Grants, pp. 10-11
- Agricultural Trade Directory on Africa, pp. 12-13
- 1996 & 1995 C/LAA Miami Conferences, pp. 13-15
- NAL's GC-ASK Recognized in 1996 Computerworld Smithsonian Award, pp. 16-17

American Poultry Historical Society Poultry Hall of Fame, pp. 21-24

Prince George's Women Celebrate County's 300th Anniversary, pp. 25-27, 36

USDA Technology Demonstration Day, p. 27-28

NAL Celebrates Its Success at Customer Service, pp. 29-31, 36

CPR Training at NAL, p. 12

Staff Update, Including Marathon Runners, pp. 17-20

New Bibliographies, pp. 32-33

Publications Exchange, p. 33

New Serials, pp. 33-35

...and more

The screenshot shows a vintage Netscape browser window. The title bar reads "Netscape - [Occurrence and Distribution of Pesticides In Chesapeake Bay]". The menu bar includes File, Edit, View, Go, Bookmarks, Options, Directory, Window, and Help. Below the menu is a toolbar with Back, Forward, Home, Reload, Images, Open, Print, Find, and Stop buttons. The location bar shows the URL "http://www.agnic.org/cbp/index.html". A navigation bar at the bottom has links for What's New!, What's Cool!, Handbook, Net Search, Net Directory, and Software. A large "N" logo is in the top right corner. The main content area features a map of the Chesapeake Bay region. The title "Data Base of the Occurrence and Distribution of Pesticides in Chesapeake Bay" is centered above the map. Below the title, four authors are listed: W. Edward Johnson, Rosanna B. Kroll, Anthony S. Pait, and Jack R. Plimmer. A horizontal line separates this from the "Background" section. The "Background" section contains a bulleted list: Acknowledgments, Notes on the Creation of the Web Version, Summary, and Data Base Description. Another horizontal line follows. The "Environmental Concentrations and Distributions" section contains a bulleted list: Bibliographic Citations and Study Descriptions Index, Location Index, Pesticide Index, and Species Index. A third horizontal line follows. The "Maps" section contains a bulleted list: Pesticide Distribution Maps. At the bottom of the page is a "Keyword Search" input field, a "cbpest" button, a download icon, and a "[Search Help]" link. The status bar at the bottom left says "Document: Done".

## Title page of the *Data Base of the Occurrence and Distribution of Pesticides in Chesapeake Bay*.

in such a format. The pesticide table was by far and away the largest single component, "weighing in" at nearly 200 kilobytes. Each table *field* was separated from the next by a tab (ASCII 09). Each table row was uniquely terminated with the DOS standard carriage return/line feed (ASCII 13/10).

WordPerfect® word processing software provided the foundation for the accompanying textual material and this too was converted to ASCII format. Graphic materials took the form of ".Gif" files.

We developed the Web version in a UNIX environment, using a *development* Sun Sparc20 workstation. The Sun also ran the NCSA Web server software. Ample use was made of ordinary UNIX utilities (e.g., sort, grep, etc.), but the PERL programming lan-

guage played a critical role in HTML encoding and segmenting the ASCII files. The consistent tab delimiters separating fields were leveraged to process the data uniformly.

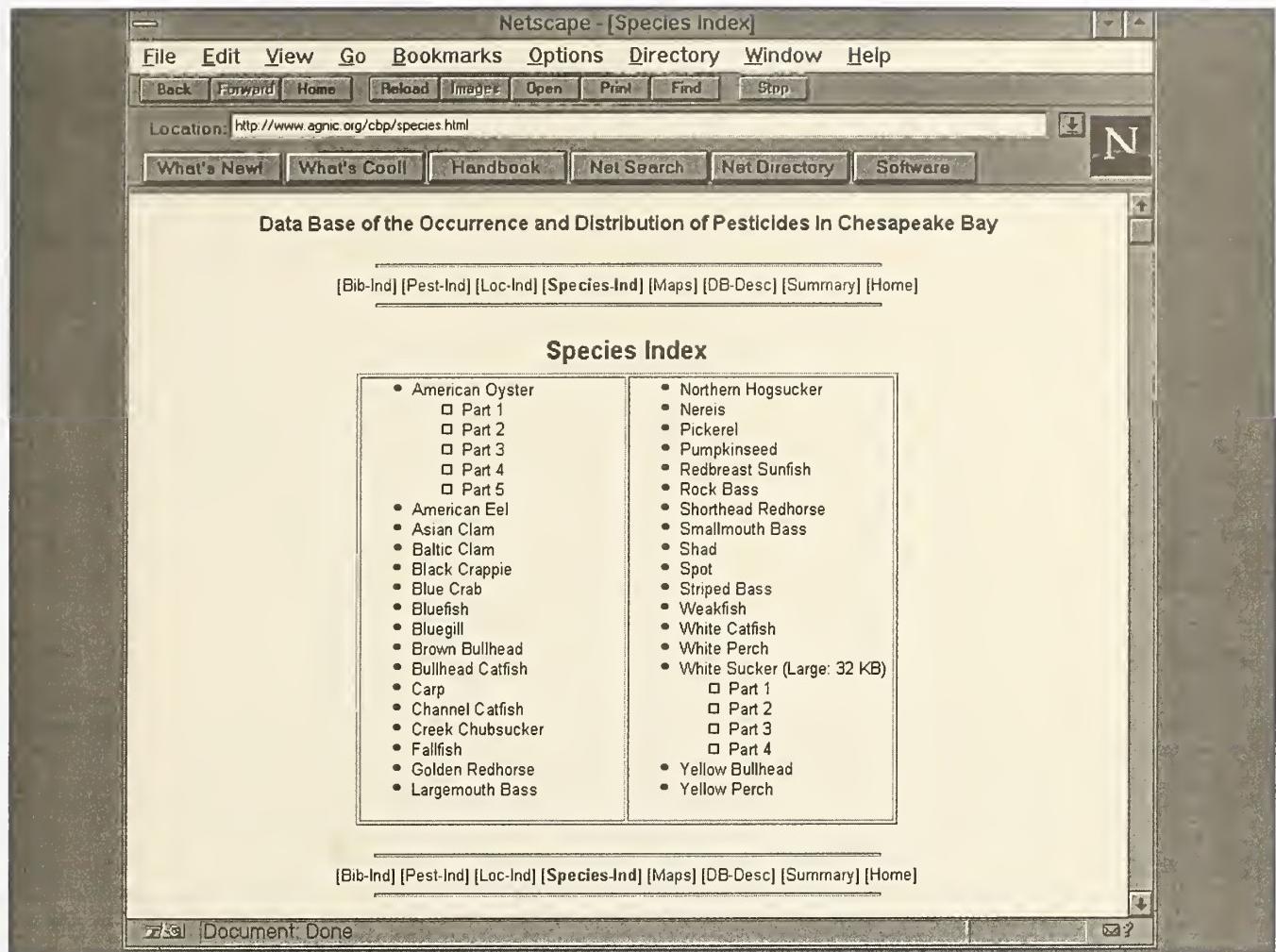
Once created, the database was ported to the AgNIC W3 server, which currently operates on a Pentium 90 microcomputer under the Windows NT 3.51 operating system. The Web server software is O'Reilly's *WebSite*®.

### Crafting a Web Architecture

The data was singularly suitable for presentation in tabular form. The printed version was organized in this fashion and to attempt the Web based implementation in any other way would have been tedious indeed. So, the HTML table format became the basis for our Web version. Although we

realized that choosing tables would impede those using the oldest Web browsers, we felt that the organizing power and construction-simplicity offered by tables offset an ever diminishing drawback.

Once converted into HTML table format, the originally 200 kilobyte pesticide data file swelled to an impressively large 750 kilobytes. Although the original *Excel*® spreadsheet had been a single, large file, this would not be a suitable design for the Web version. Web browsers running on older, more leanly configured microcomputers take an unacceptably long time to load large tables and, occasionally, refuse to do so altogether. As a consequence, it was necessary to restructure the data into a series of smaller tables, each containing datapoints for a single pesticide. In some instances, it was



### "Species Index" for the Data Base ... of Pesticides in Chesapeake Bay.

necessary to further subdivide the more heavily clustered pesticides to achieve a workable size. In marginal cases we provided both the full version for our technologically endowed users and a segmented version for those with less capable hardware. We outfitted the segmented versions with a convenient *jump-index* at the top and bottom of each segment page, permitting easy navigation between segments.

An overview index page permits the user to select the pesticide of interest. Column headings on each table are linked to the appropriate attribute in the *Data Base Description* section, allowing easy access to a description of any data-field of interest. When available, we also added a link from each pesticide's name to the corresponding entry in the *ARS Pesticide Properties Database*.

<http://www.arsusda.gov/history.html> thereby incorporating details of the pesticide's physical and chemical properties.

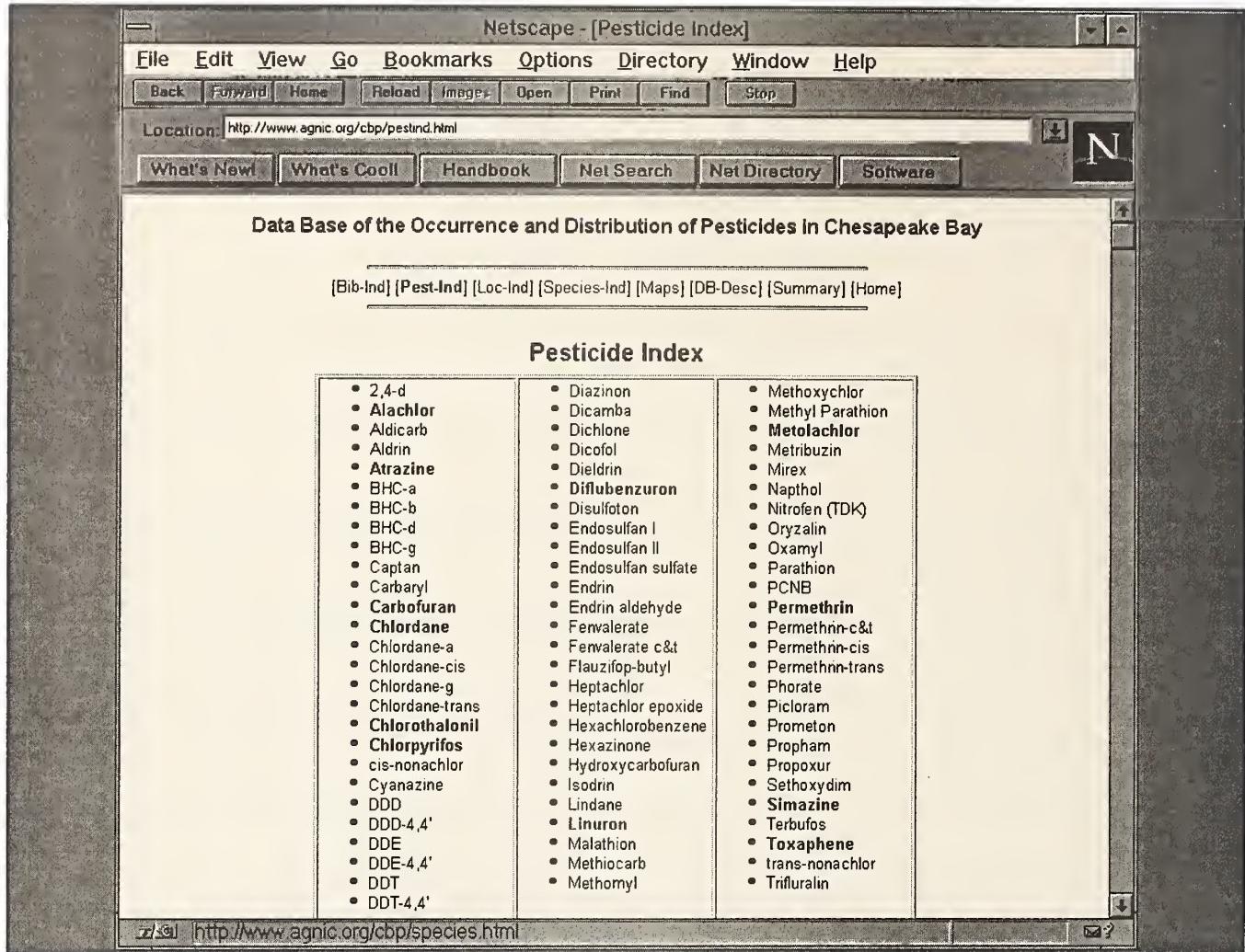
The bibliographic references presented no special problems. Each reference was HTML encoded as a separate file and a table-formatted index page was created. Some reference pages were quite information-rich in their own right and additional data tables will be found within them. An HTML link was added from each pesticide datapoint to the bibliographic reference from which it was drawn.

The original spreadsheet permitted access only by pesticide name or bibliographic study number. Since the data often included a geographic *location* and biotic species affected component, we felt it would be useful to provide

access through these as well. Again relying on PERL, we created tables for both geographic and species elements, along with an index page for each. This permits a user to ascertain all reported instances of pesticide occurrence in Baltimore Harbor, for example, or all reported pesticide observations in the Blue Crab.

A series of ".Gif image" maps provide the user with a visual representation of where the major pesticides addressed by the database were found, as revealed by: Biota examination, Sediment analysis, and Surface Water Analysis.

The remaining textual components (*Acknowledgments*, *Summary*, *Data Base Description*) were marked up and incorporated into the system. We also added a uniform *jump-index* at the top



### "Pesticide Index" for the Data Base ... of Pesticides in Chesapeake Bay.

and bottom of each major index page to offer a common *look and feel* to the system.

Finally, using the inherent swish indexing function offered by WebSite®, we created a keyword index of the entire database. This is useful for searching the textual sections and, in certain situations, for searching the tables themselves.

#### Access

The database can be found on the World Wide Web at:

<<http://www.agnic.org/cbp/>>

It can also be accessed from the AgNIC home page:

<<http://www.agnic.org/>>

by simply following the appropriate link.

To see the AgDB metadata record describing the database, visit:

<<http://www.agnic.org/agdb/dbpestcb.html>>

A table-compliant Web browser is necessary to correctly view the data. Almost any recent graphical browser (Netscape 1.2+, NSCA Mosaic 2.0+, MSIE 2.0+) implements tables adequately. The user will probably want to be sure that the browser font size is set fairly small, so as to maximize the amount of data that can be fit on a single screen. This is especially true when viewing the tables. Although less than ideal, the non-graphic browser, Lynx (version 2.5), handles tables about as well as can be expected from a text-based browser.

#### Ruminations

#### Level of Effort

Database development required about a 1 month FTE. This included writing and debugging the PERL scripts necessary to parse the data. There is some consideration of doing a "second edition" incorporating more recently discovered data. Assuming an absence of data format changes, a database reload might take 1 to 2 weeks FTE, soup to nuts.

#### Static vs Dynamically Generated Tables

In this version, the static HTML tables were generated "up-front," stored on disk, and are provided instantly on demand. We also might have

Netscape - [Fallfish]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Reload Images Open Print Find Stop

Location: http://www.agnic.org/cbp/spec/fallfish.html

What's New! What's Cool! Handbook Net Search Net Directory Software

## Fallfish

Study ID	Pesticide	Yr	Site	Stn	Matrix	Species	Min	Max	Conc. Units	No. Samples Analyzed	No. Samples with Dect.	% Samples with Dect.	Mean Conc	Spring Conc. Mean	Monthly or Season of Max. Detect.	Limit of Detect.
94036	Chlordane	84	Patuxent R	TF-1	B	Fallfish	0.35400	ppm	2			0.3540				
94036	Chlordane	84	Potomac R	TF-2	B	Fallfish	0.07500	ppm	8			0.0750				
94036	Chlordane	83	Potomac R	TF-2	B	Fallfish	0.03500	ppm	3			0.0350				
94036	Chlordane	84	Patuxent R	TF-1	B	Fallfish	0.01900	ppm	4			0.0190				
94035	Chlordane	85	Gunpowder R	WT-1	B	Fallfish	0.01800	ppm				0.0180				
94036	Chlordane	84	Gunpowder R	WT-2	B	Fallfish	0.01600	ppm	5			0.0160				

A sample species table (above) and pesticide table (below) for the *Data Base of the Occurrence and Distribution of Pesticides in Chesapeake Bay*.

Netscape - [Endrin]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Reload Images Open Print Find Stop

Location: http://www.agnic.org/cbp/pest/endrin.html

What's New! What's Cool! Handbook Net Search Net Directory Software

## Endrin (1R,4S,5R,8S)-1,2,3,4,10,10-Hexachloro-1,4,4A,5,6,7,8,8A-Octahydro-6,7-Epoxy-1,4,5,8-Dimethano Naphthalene (C<sub>12</sub>H<sub>8</sub>Cl<sub>8</sub>O)

[Pesticide Index]

Study ID	Pesticide	Yr	Site	Stn	Matrix	Species	Min	Max	Conc. Units	No. Samples Analyzed	No. Samples with Dect.	% Samples with Dect.	Mean Conc	Spring Conc. Mean	Monthly or Season of Max. Detect.	Limit of Detect.
94011	Endrin	88	Susquehanna R.	CB-1x	ML		0.00000	trace	ppb	1	1	1				0.025
94011	Endrin	88	Mid-CB	CB-4	ML		0.00000	trace	ppb	1	1	1				0.025
94011	Endrin	88	Choptank R.	ET-5	ML		0.00000	trace	ppb	1	1	1				0.025
94011	Endrin	88	Potomac R.	TF-2	ML		0.00000	trace	ppb	1	1	1				0.025
94008	Endrin	91	Wye R	EE-1	S		0.00000	0.00000	ppb			0				1.240
94007	Endrin	90	Wye R	EE-1	S		0.00000	0.00000	ppb			0				1.240
94007	Endrin	90	Elizabeth R	LE-5	S		0.00000	0.00000	ppb			0				1.240
94008	Endrin	91	Potomac R	RET-2	S		0.00000	0.00000	ppb			0				1.240
94007	Endrin	90	Potomac R	RET-2	S		0.00000	0.00000	ppb			0				1.240
94008	Endrin	91	Anacostia R	TF-2	S		0.00000	0.00000	ppb			0				1.240
94007	Endrin	90	Potomac R	TF-2	S		0.00000	0.00000	ppb			0				1.240
94007	Endrin	90	Patapsco R.	WT-5	S		0.00000	0.00000	ppb			0				1.240
94011	Endrin	88	Choptank R.	ET-5	SW		0.00000	trace	ppb	1	1	1				0.025
94011	Endrin	88	Susquehanna R.	CB-1x	SW		0.00000	0.00000	ppb	1	0	0				0.025

[Pesticide Index]

Netscape - [Study ID: 94010]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Reload Images Open Print Find Stop

Location: <http://www.agnic.org/cbp/bib/94010.html>

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**Analysis of nutrient and pesticide concentrations in groundwater. Nomini Creek Watershed Project: Pre-BMP Phase Study ID: 94010**

**CITATION:**

Mostaghimi, S., U. Tim, P. McClellan, and K. Kline. 1990. *Analysis of nutrient and pesticide concentrations in groundwater. Nomini Creek Watershed Project: Pre-BMP Phase.* Department of Ag. Eng. VPI & SU, Blacksburg, VA and the VA Division of Soil and Water Conservation, Department of Conservation and Recreation, Report No. N-SI-9007. Richmond, VA.

**OBJECTIVE(S):**

1. obtain baseline data for evaluating the surface water and groundwater quality improvements resulting from agricultural BMP implementation;  
2. provide a data base to support the development, calibration, and verification of models for agricultural pollution control.

**QA/QC:**

The author cites Mostaghimi, S. 1989. Report No. N-QA-3-8906 and Mostaghimi, S. 1989. Report No. N-P1-8811, for information on QA/QC.

**METHOD(S):**

The author cite Mostaghimi, S. 1989. Report No. N-QA-3-8906 and Mostaghimi, S. 1989. Report No. N-P1-8811, for information on analytical methods use in this study.

**COMMENTS:**

1. No significant difference between pesticide concentrations in groundwater and well water or tillage practice was observed;  
2. maximum atrazine detected (25.6 ppb) is suspected to have resulted from sample contamination;  
3. although pesticides were detected throughout the year, the months of May and October were the most likely time for residue detection in groundwater

### A sample bibliographic record for the *Data Base ... of Pesticides in Chesapeake Bay.*

programmatically generated the tables "on the fly." Doing so would have saved disk storage space, but since the entire database consumes only a bit more than 3 MB, disk was not really an issue. On the other hand, running the CGI programs necessary to generate large tables interactively would probably have unacceptably degenerated server performance. In addition, the table size issue alluded to earlier would have complicated the dynamic approach. Hence, we chose the static table option.

#### Derivative vs Authority Database

This edition is unabashedly derivative. The authoritative version is still

maintained in Excel® spreadsheet format. This leads to complications. For example, in creating the new indexes (Species and Location), we discovered a few naming inconsistencies that needed correction. These corrections had to be made both to the Web version and the authoritative version. Furthermore, keeping two versions of such a complex database completely "in-synch" is probably not possible. On the other hand, the authoritative version is not highly dynamic.

In an ideal world, the Web version would be the authoritative (and only) version. To bring this about would require a workable mechanism for updating the data. This would no doubt be

quite difficult, given the present architecture (multiple static tables, each derived from the source data file). Updates would have to be made to the source data file and to many separate tables.

For additional information, contact William B. Feidt at:

Internet/E-mail: [<wfeidt@nal.usda.gov>](mailto:<wfeidt@nal.usda.gov>)

WWW:

<<http://www.agnic.org/cbp/cbwebver.htm>>

Telephone: (301) 504-6967

TDD/TTY: (301) 504-6856

Fax: (301) 504-7473

Or contact William B. Feidt by mail at

Netscape - [Bibliographic Citations and Study Descriptions Index]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Reload Images Open Print Find Stop

Location: <http://www.agnic.org/cbp/bibind.html>

What's New! What's Cool! Handbook Net Search Net Directory Software N

Data Base of the Occurrence and Distribution of Pesticides in Chesapeake Bay

[Bib-Ind] [Pest-Ind] [Loc-Ind] [Species-Ind] [Maps] [DB-Desc] [Summary] [Home]

Bibliographic Citations and Study Descriptions Index

Study ID	Title
94001	Intensive survey for chlordane contamination in finfish in Lake Roland, Back River, and Patapsco River.
94002	Contaminant levels in oysters and clams from the Chesapeake Bay 1981-1985.
94003	Striped bass contaminant and water quality studies in the Potomac River and upper Chesapeake Bay - annual contaminant and water quality evaluations in east coast striped bass habitats.
94004	Chesapeake Bay Fall Line Toxics Monitoring Program: 1990-1991 loadings.
94005	Chesapeake Bay - Water quality monitoring program toxic chemicals and bioaccumulation component.
94006	Contaminants in Chesapeake Bay Sediments. Final Report. Chesapeake Bay Program.
94007	A Pilot study for ambient toxicity testing in Chesapeake Bay, Vol. 1 - Year 1 Report, April 1991.
94008	A pilot study for ambient toxicity testing in Chesapeake Bay, Year 2 Report.
94009	Sediment contamination studies of the Potomac and Anacostia Rivers around the District of Columbia.
94010	Analysis of nutrient and pesticide concentrations in groundwater. Nomini Creek Watershed Project: Pre-BMP Phase.
94011	Surface microlayer sampling results for the Chesapeake Bay. Spring 1988.
94012	Chesapeake Bay Fall Line loadings survey: Organics component. Interim report.
94013	Results of a Maryland groundwater herbicide reconnaissance survey.
94014	Enrichment of the agricultural herbicides atrazine in the microsurface water of an estuary.
94015	CBCES tests pollution from Rhode River watershed. Assessing nonpoint source pollution: A detailed study of a rural watershed in the coastal plain of Maryland.
94016	Toxic substances in submerged aquatic vegetation beds.
94017	Reconnaissance survey of nonpoint source pesticides in Maryland surface waters.

Document: Done

A part of the bibliographic index for the *Data Base ... of Pesticides in Chesapeake Bay*.

the following address:

National Agricultural Library, USDA, ARS  
 Information Systems Division, Room 013  
 10301 Baltimore Avenue  
 Beltsville, Maryland 20705-2351

### Cataloging of "Data Base ... of Pesticides in Chesapeake Bay"

As a part of its continuing program to catalog electronic resources, the National Agricultural Library has cataloged the *Data Base of the Occurrence and Distribution of Pesticides in Chesapeake Bay*. Records for this valuable resource appear in ISIS (Integrated System for Information Services), NAL's online catalog, and in AGRICOLA (AGRICultural OnLine Access), NAL's bibliographic database. It was selected for cataloging by NAL's Electronic Resources Selection Council. The call number

is: QH545.P4D38 1995.

In the Technical Services pages of the NAL home page on the World Web Web the record is linked to the cumulative list of Internet selections at:

<http://www.nal.usda.gov/acq/intscsel.htm>

Click on "Pesticides" in the subject list at the top of the page to find it alphabetically with other Internet resources concerning pesticides.

— Julie Mangin



## News from Other Libraries

# Researchers to Have Greater Access to World-Class Canadian Library Collections

November 18, 1996, Ottawa — A precedent setting agreement between two government organizations will save money and provide researchers with greater access to scientific and technical library collections, considered among the best in the world. The agreement between the Canada Institute for Scientific and Technical Information (CISTI) of the National Research Council of Canada and the Canadian Agriculture Library (CAL) not only improves service but also saves money by:

- Helping the libraries avoid duplicating expensive collections;
- Allowing the two organizations to share technology and business services;
- Creating an integrated document delivery service.

Document delivery service provides copies of articles, conference papers, reports, books, and duplicate or paper copies of microfiche. Both libraries provide about half a million documents a year from the two collections.

By 1997, when the implementation is complete, researchers will have a single point of access to both collections through CISTI's online catalogue from the World Wide Web. The catalogue can also be used to send online orders to CISTI where they will be processed using an award-winning document delivery system called IntelliDoc.

To order a document, a researcher registers with CISTI, regardless of

which library actually holds the item that has been requested. Users fees for the service will be the same for both CISTI and CAL.

This strategic collaboration enables CAL's clients to receive documents electronically. Documents from the CAL collection will be scanned and sent to IntelliDoc, where they will be forwarded to clients by Internet or fax, or as a paper copy. Through this agreement CAL will avoid the expense and effort of developing its own document delivery process, client registration, billing, and related systems. CISTI will benefit from the agreement by being able to provide its 10,000 clients with direct access to CAL's world-class agriculture and agri-food collection.

This important initiative serves as a model for future agreements between other government libraries.

For more information contact:  
*CISTI*

*Suzanne Bureau*  
*Head, Serials/Union Lists*  
Tel: 613-993-9029  
Fax: 613-952-8245  
E-mail: [suzanne.bureau@nrc.ca](mailto:suzanne.bureau@nrc.ca)  
<http://www.cisti.nrc.ca/cisti>

or

*Canadian Agriculture Library*  
*Mae Cutler, Assistant Director*  
*Ottawa, ON, Canada K1A 0C5*  
Tel: 613-759-7084  
Fax: 613-759-6643  
E-mail: [cutlern@em.agr.ca](mailto:cutlern@em.agr.ca)

— Mae Cutler

# Canadian Agriculture Library Opens Margaret Reynolds Archival Collection

The Canadian Agriculture Library (CAL) is pleased to announce the official opening of the Margaret Reynolds Archival Collection. Ceremonies marking the occasion took place in the Sir John Carling Building November 7, 1996, and featured the first "homecoming" reunion of CAL alumni.

Charles Reynolds, son of Mrs. Reynolds, officially opened the new archival collection of Departmental publications on behalf of his mother, who was unable to be present. The large crowd of friends and colleagues applauded as former Director Elmer Smith and Joyce MacIntosh, former Assistant Director, joined forces in a symbolic ribbon-cutting ceremony.

In his welcoming remarks, Victor Desroches, the present Director of CAL, paid tribute to Mrs. Reynolds as a giant in her time who had a lasting impact on the world of agricultural information services. All who worked with Mrs. Reynolds would agree that, through her warmth, kindness, and understanding, she also had a lasting impact on their own personal lives and careers.

Margaret (Peg) Reynolds graduated in library science from McGill University in 1938. At the time of her appointment as the second permanent Chief Librarian in 1950, she was the first woman to occupy a senior management position in the history of the Canadian Department of Agriculture — a well deserved recognition of her accomplishments. Under her skilful direction the Library grew and developed into an acknowledged national agricultural collection with a strong and vibrant network of libraries throughout the country. Through her

vision, leadership, and superb management skills, the library became not only the best agricultural library in Canada but also one of the foremost in the world.

Mrs. Reynolds' active involvement in the Canadian Library Association, her strategic cooperative projects with other national library architects, such as the late Jack Brown of the National Science Library, are only a few of her extensive contributions to the Canadian library and information business.

With her strong sense of pride in our agricultural heritage, one of her goals was to ensure that copies of all departmental publications be deposited in the library for posterity. It is indeed fitting that this separate special conservation collection of all Departmental publications issued since 1867 be named in her honour.

—Janet Stitt

Tel: 613-759-7102  
E-mail: Stittj@EM.AGR.CA

## AICHE Journal Needed

The Library of the Eastern Regional Research Center of the Agricultural Research Service is very much in need of *AICHE Journal*, volumes 1-18, 1955-1972. If anyone has surplus copies of any of these volumes and is willing to donate them to the library, please contact Wendy Kramer, Librarian:

Telephone: 215-233-6602  
Fax: 215-233-6606  
E-mail:  
[wkramer@arserrc.gov](mailto:wkramer@arserrc.gov)

Donated copies should be sent to:

Wendy Kramer, Librarian  
Eastern Regional Research  
Center Library  
Agricultural Research Service,  
USDA  
600 East Mermaid Lane  
Wyndmoor, PA 19038-8551  
—Rae Dubois



## NAL Ends Bulletin Board System

The National Agricultural Library discontinued its ALF (Agricultural Library Forum) Bulletin Board System September 30, 1996. In announcing that ALF would cease, NAL Director Pamela André indicated that "The Internet and the World Wide Web are now the primary vehicles for access to NAL's computer-based collection and delivery of NAL materials to customers."

"Although ALF has provided excellent service since 1987, most data services offered by ALF are on NAL's Internet-accessible information servers," André said. "Those that aren't soon will be. Plus we are continually adding new services through our home page."

NAL's home page is located at URL:

<http://www.nal.usda.gov>

Methods of obtaining Internet access are through an account with an on-line information service, with one of many companies now providing Internet access, or with an Internet service provider. In addition, many states, localities, libraries and academic institutions now provide Internet access.

Information and assistance in accessing the NAL collection or NAL services are available from the NAL Reference Desk, e-mail:

[agref@nal.usda.gov](mailto:agref@nal.usda.gov)  
and telephone (301) 504-5479, or the NAL Information Desk, e-mail:  
[circinfo@nal.usda.gov](mailto:circinfo@nal.usda.gov)  
and telephone (301) 504-5755.

## Announcing the Availability of the CAIT Demo

A demonstration of CAIT (Computer-Assisted Indexing Tutor) is now available through NAL's webpage. This computer-based program is designed to improve the quality and efficiency of training in the Indexing Branch. Specific expected benefits include:

- Reduced time required for novice indexers to achieve journeyman level;
- Reduced time investment of experienced indexers in the training of novices;
- Increased productivity; and
- Increased consistency and quality of the AGRICOLA database.

The demonstration illustrates CAIT's features and functions and provides a sample of how a student actually uses CAIT. It is a Windows™ application created using ToolBook™ software and other in-house resources.

The demo file (consisting of several packed and compressed files) may be downloaded from the NAL Indexing Branch webpage

<http://www.usda.nal.gov/indexing/>  
into a subdirectory of your own creation called "tb30"; a double click on the copied file will "unpack" the files. Please refer to the "readme.txt" file for further instructions.

For additional information, contact Holly Berry Irving, NAL, Indexing Branch:

[hirving@nal.usda.gov](mailto:hirving@nal.usda.gov)



## FY96 NAL Support for 1890 Land-Grants

by Peggy J. Blake, NAL

In FY 1996, the National Agricultural Library's support for the 1890 land-grant colleges and universities focused on increasing faculty, staff, and students awareness of and access to NAL and other resources produced globally in the food and agricultural sciences through workshops and expansion of electronic access routes. NAL's Online Public Access Catalog (OPAC), which became computer-accessible worldwide through the Internet, was one of the electronic linkages.

In meetings of the Association of Agricultural Administrators and the 1890 Library Directors' Association, the NAL director and liaison staff presented information on the latest developments in NAL resources and services. NAL's Plant Genome Data and Information Center Coordinator participated in a lecture series in the Transgenic Plant Workshop held at Tuskegee University, and other NAL staff provided consultation and support services to 1890 libraries. NAL continued to provide the 1890 land-grant libraries with subscriptions to AGRICOLA and other NAL or cooperatively-produced CD-ROMs and copies of NAL publications.

On March 13-14, 1996, the National Agricultural Library conducted a two-day Workshop on Electronic Resources and Systems for the Electronic Learning Centers (ELC) coordinators and project director from six 1890 land-grant institutions (a list of participants is at the end of this article). The workshop objectives were:

- To acquaint 1890 librarians with the vast food and agricultural information resources available from or through NAL; and
- To assist participants with developing methods to increase the awareness of and effective utilization of computer technologies to access food and agricultural information resources and systems.

Libraries at five 1890 land-grants are demonstration sites for ELCs that will be established in the sixteen 1890 land-grant and Tuskegee University libraries. A goal of the 1890 ELC initiative is to "inform collegiate and community residents of the 1890 land-grant institutions about the availability and potential utilization of electronic



photo: J. Swab

William Gaffney

information retrieval sources, especially in the areas of food and agricultural sciences." This project facilitates connecting the 1890 libraries to the Internet and other national and international electronic information services.

In November 1995, William Gaffney, Coordinator of Academic Computer Services at Langston University and ELC project director also received a two-day orientation to NAL's technology applications, programs, and services. Gaffney replaced Ronald



photo: J. Swab

Workshop participants (L-R): Peggy Blake, Jerry Brown, Karen McDaniel, William Gaffney, Ann Henson, David Kolpin, Alice Baker, and Mei-Yiao Lo.

Keys, curator of Langston's Melvin B. Tolson Black Heritage Center, who directed the ELC project activities from 1993-1995.

NAL provides consultation and training on the availability and use of food and agricultural information resources, through electronic and traditional methods and provides librarians and research and teaching staff with technical advice and assistance related to information access components from development of research and teaching proposals to the implementation of projects funded by the U.S. Department of Agriculture's Capacity Building Grants Program (CBGP).

NAL has cooperated on sixteen CDBG-funded teaching and research projects since the program's inception in 1990. One such USDA funded project, consisting of cooperative efforts among Tuskegee University, the National Agricultural Library, and the University of Illinois researchers and librarians, led to the development of the National Sweet Potato Information Center (NSPIC) in 1993. NSPIC goals include development of a collection of materials, research and experts databases on the sweet potato, and a network of people and institutions involved in sweet potato research, production, and utilization. It is located within the Tuskegee University School of Agriculture and Home Economics.

The Cooperative State Research, Education, and Extension Service, Office of Higher Education, administers the Capacity Building Grants Program, which is designed specifically to build the institutional capacities of the eligible colleges and universities through cooperative initiatives with Federal and non-Federal entities. The program addresses the need to:

- Attract more minority students into the food and agricultural sciences;
- Expand linkages among the 1890 institutions and with other colleges and universities; and
- Strengthen the overall capacity of the 1890 land-grant institutions to establish them more firmly as full

partners in the food and agricultural science and education system.

### 1890 Workshop Participants:

#### Ann Henson

Head Reference Librarian  
Florida A&M University  
Samuel H. Coleman Memorial  
Library  
Tallahassee, FL 32307  
904-599-3193  
[hinsona@nervm.nerdc.ufl.edu](mailto:hinsona@nervm.nerdc.ufl.edu)

#### Jerry R. Brown

Reference Librarian  
Fort Valley State College  
Hunt Memorial Library  
Fort Valley, GA 31030  
912-825-6763  
[brown@fvs3.fvsc.peachnut.edu](mailto:brown@fvs3.fvsc.peachnut.edu)

#### Karen C. McDaniel

Director of Library Services  
Paul Blazer Library  
Kentucky State University  
Frankfort, KY 40601  
502-695-5109  
[kmcdaniel@gwmail.kysu.edu](mailto:kmcdaniel@gwmail.kysu.edu)

#### David Kolpin

Librarian  
Langston University  
G. Lamar Harrison Library

Langston, OK 73050  
405-466-3292  
[library@mathrisc1.lunet.edu](mailto:library@mathrisc1.lunet.edu)

#### William F. Gaffney

Project Director  
Dir. CALC/ELC Laboratories  
Langston University  
306 Jones Hall  
Langston, OK 73050  
405-466-2935  
[gaffney@mathrisc1.lunet.edu](mailto:gaffney@mathrisc1.lunet.edu)

#### Mei-yiao Lo

Assistant Dir. for Technical and  
Automated Services  
University of Maryland Eastern  
Shore  
Frederick Douglass Library  
Princess Anne, MD 21853  
410-651-6613  
[mlo@fdl.umes.umd.edu](mailto:mlo@fdl.umes.umd.edu)

#### Alice M. Baker

Reference/Information Specialist  
South Carolina State University  
Miller F. Whittaker Library  
P.O. Box 7491  
Orangeburg, SC 29117-0001  
803-536-8640  
[LB\\_Abaker@SCSU.edu](mailto:LB_Abaker@SCSU.edu)



photo: J. Swab

Those who planned the NAL workshop for the 1890 librarians were Deborah Richardson, William Gaffney, and Peggy Blake, with the assistance of Tanya Tanner.

# CPR Training at NAL

Early in 1996, the National Agricultural Library Secretarial Advisory Council (NALSAC) proposed to NAL management that a team of staff members be trained and certified to provide basic CPR and community first aid in medical life-threatening situations that might occur during working hours. This proposal was heartily endorsed by NAL management and permission was granted to offer two American Red Cross approved training classes to volunteers who would be willing to provide emergency care until professional assistance could arrive on the scene.

Lynn Stanko of the Cataloging Branch is an American Red Cross Instructor. She trained and certified 10 NAL employees in Community First Aid and Safety and CPR on June 23 and 25. Thereafter, Dennis Lee Smith, Beltsville Agricultural Research Center Security Manager, also an instructor for the American Red Cross, certified seven more staff members on September 23 and 25.

The certified team members are: Alice Allen, Allen Atchely, Shirley L. Evans, Marie Funkhouser, Juanita Hammond, Stan Kosecki, Andrea Lindsey, Gary McCone, Wayne Olson, Ann Palms, Vickie Pessagno, Alvetta Pindell, Jerry Rafats, Karen Sichelman, Lynn Stanko, Dan Starr, Judi Winesdorfer, Janet Wright, and Judi Zidar. There is a waiting list of others who are interested in volunteering to serve on the team and the NALSAC plans to arrange for another training session.

A list of the certified individuals with room and telephone numbers has been posted in visible areas on each floor of the NAL building. The volunteer medical emergency team members have been provided with first-aid kits and this equipment has also been placed in strategic locations throughout the building. Team members will need to be recertified every year for CPR and every 3 years for Community First Aid and Safety. NAL is fortunate to have such assistance available to its staff and patrons.

—Ann Palms & Mary Silva

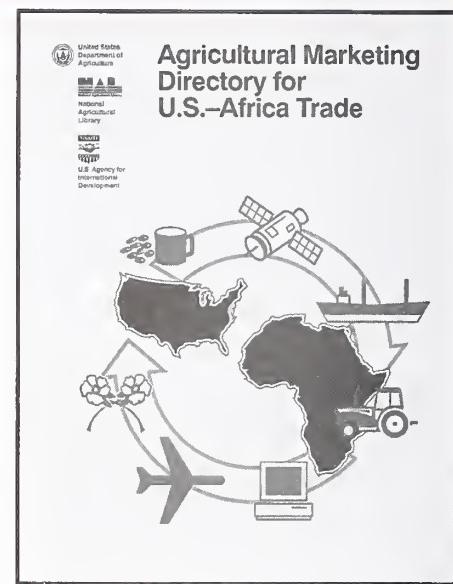


## NAL Produces Agricultural Trade Directory on Africa

A directory on agricultural trade with African countries has been produced by the Agricultural Trade and Marketing Information Center (AMTIC) of the National Agricultural Library, with funding from the U.S. Agency for International Development (USAID). This one-of-a-kind reference tool, titled *Agricultural Marketing Directory for U.S.—Africa Trade*, is available from USAID to business persons and organizations interested in U.S.—Africa trade.

"We put the directory together to provide vital market and trade development information about all 53 countries in Africa," said Mary Lassanyi, AMTIC Coordinator and coauthor of the directory with Wayne Olsen of the NAL staff. "It is a continent with tremendous potential for agricultural businesses."

Lassanyi explained that the directory is divided into several sections for easy reference. A "Select Publications" section provides suggested readings on economic growth, free market enterprise, market opportunities, and international trade in African countries. The "Technology Applications" section includes material on information systems, such as Internet sites, that provide up-to-date news on international trade activities. The "Contacts" section describes the international and regional organizations, research centers, and financial institutions involved in international trade. There are also sections on those African countries



that have major trade with the United States, and those that trade very little with the U.S.

Information for each country includes a brief economic overview, exports and imports, investment and trade barriers, and suggestions on the best prospects for U.S. investments and exports. Lists of contacts and publications on agricultural trade in the specific country also are included.

Free copies of the directory are available by sending a self-addressed label with the request to:

Jerry Brown/Jonathan Lindsay  
U.S. Agency for International  
Development  
AFR/SD/PSGE, Suite 210  
1111 North 19th Street  
Rosslyn, VA 22209  
Tel: 703-235-3832  
FAX: 703-235-5423

The *Directory* is also made available electronically through the Internet at URL: <http://www.info.usaid.gov>

For additional information contact:  
*Mary Lassanyi*  
*Agricultural Trade and Marketing*  
*Information Center*  
*National Agricultural Library,*  
*Room 304*  
*USDA, ARS*  
*10301 Baltimore Avenue*  
*Beltsville, Maryland 20705-2351*  
Or call:  
(301) 504-5509  
TDD/TTY: (301) 504-6856  
Fax: (301) 504-6409  
Internet/E-mail:  
[mlassanyi@nal.usda.gov](mailto:mlassanyi@nal.usda.gov)

## 1996 & 1995 C/LAA Miami Conferences

Mary Lassanyi, Coordinator of the Agricultural Trade and Marketing Information Center (ATMIC) at NAL, joined the U.S. Department of Agriculture delegation in exhibiting and representing USDA at both the 1996 and 1995 Caribbean/Latin American Action (C/LAA) Miami Conferences held in December of both years.

The Miami Conference, an annual meeting, serves as an "international forum for new business and economic policy directions in the region, drawing business leaders and top government



photo: M. Lassanyi

The USDA and NAL exhibit at the Miami Conferences with materials prepared by ATMIC for distribution.

officials from the Caribbean, Latin America, the United States, Canada, Europe, and Asia."

### C/LAA Mandate

Caribbean/Latin American Action is a private, independent organization promoting private-sector generated economic development in the countries of the Caribbean Basin. In 1990 its mandate was expanded to include Mexico, Venezuela and Colombia, and

eventually South America as well, in the conviction that Caribbean and Central American prosperity cannot be achieved apart from the broader context of global and hemispheric trade developments.

C/LAA seeks to mobilize private-sector resources both in the U.S. and abroad. It serves as a catalyst to stimulate trade and investment, assists local private-sector institutions, and promotes sound public policies. Headquartered in Washington, D.C., C/LAA is governed by an international Board of Trustees and funded primarily by contributions from companies concerned about the region's future.

### 1996 Miami Conference

Caribbean/Latin American Action with the cooperation of the U.S. Department of Agriculture and the Inter-American Institute for Cooperation on Agriculture sponsored the 20th Annual *Miami Conference on Trade, Investment, and Development in the Caribbean Basin and Latin America* December 8-12, 1996, at the Hyatt Regency Hotel, Miami.

The conference theme was "Breakthroughs for Business in the Emerging Economy of the Americas," and a subtheme was "Breakthroughs for Agribusiness: Maximizing Hemispheric Trade Opportunities." The presentations provided information on



photo: M. Lassanyi

Bibliographies, fact sheets, brochures, and other information distributed, were quite popular at the Miami Conferences.

major topics such as:

- Competing in a Barrier-Free Market
- Progress in Public Policy Reform
- Hemispheric Business Trends
- Immediate Priorities for Business
- Special Focus Workshops and Infotech Project Workshops

Agricultural interests of the conference were focused in a variety of areas including:

- Agribusiness Trends: for example, consumer-ready foods, fresh-cut and organic fruits and vegetables.
- Agribusiness Information Resources: locating and utilizing on-line agribusiness services in export/import areas; USDA's Market News, and other trade-oriented services.
- Maintaining Quality in Transport of Agricultural Products: ensuring that perishable products arrive in excellent quality; maintaining cold-chain and product quality through packaging techniques, controlled atmosphere, and uniform palletization.
- Food Trade: the Panama Free Trade Zone Model.
- Agribusiness Tour: USDA tour of Miami area Latin American agribusinesses.
- Agricultural Trade and Technology Expo

A Handbook titled, *Breakthroughs for Agribusiness*, was prepared by Kate Healey and Ellen Welby, Shipper and Exporter Assistance Program, Transportation and Marketing Division, Agricultural Marketing Service, USDA, covered such topics as: USDA services; sanitary and phytosanitary measures, standards and technical barriers to trade; outlook for agribusiness trade; product and consumer trends in agribusiness; new technologies for agribusiness; avoiding pitfalls in transporting agribusiness products; trade financing for agribusiness; trade agreements; overview of freight forwarding; transportation; trade shows; additional resources; Caribbean/Latin American Action; and Inter-American Institute for Cooperation on Agriculture.

USDA Exhibitors included the National Agricultural Library, the Agricultural Marketing Service, the Animal



Debora Lahanas, Plant Protection and Quarantine Officer, demonstrates APHIS's EXCERPT (phytosanitary) system to Kendra Pratt at the USDA/NAL exhibit at the 1995 Miami Conference.

and Plant Health Inspection Service, and the Foreign Agricultural Service (NAL, AMS, APHIS, and FAS respectively). Representatives of these four USDA international agencies provided information on their agency programs and opportunities, issues, and resources. NAL's Agricultural Trade

and Marketing Information Center (ATMIC) provided access to what the program identified as "the world's largest agricultural resource, the U.S. National Agricultural Library." Mary Lassanyi, ATMIC Coordinator, demonstrated NAL's information technologies, and reported that conference at-



photos: M. Lassanyi

Richard Rortvedt, Senior Staff Officer, Food Industries Division, ICD, James Schroeder, Deputy Under Secretary, Farm and Foreign Agricultural Services, and Ellen McCloskey, Food Industries Division, ICD, at the 1995 USDA/NAL exhibit.

tendees "were impressed and delighted with the library's Online Public Access Catalog, which can be accessed via Internet, and with the home pages of NAL and its ten information centers."

The ATMIC/NAL exhibit distributed over 2000 information products/publications/materials from the library and information centers. A tremendous hit was the fact sheet "Agribusiness, Food Industry & Forest Industry Associations on the Internet," compiled by Carol Singer in November 1996. Several additional agribusiness companies have asked to have their newly developed Internet sites included in the next revision of the fact sheet. Another publication receiving many favorable comments was the Agricultural Research Service's *Science In Your Shopping Cart*.

### 1995 Miami Conference

The 1995 Miami Conference dealt with agribusiness, tourism, telecommunications, and health, with special programs on trade policy, Cuba, Haiti, and MERCOSUR. Two-day programs focused on the six additional sectors: energy, environment, financial services, manufacturing, telecom, and transportation. The exposition area incorporated technical exhibits with traditional sector and country booths, emphasizing the theme of "trade and technology."

#### Conferences within the Conference

The theme of telecommunications technology provided the basis for three major components of the 1995 Miami Conference. Organized as "Conferences within the Conference," AgriNet Americas, Healthnet, and TravComm '95 demonstrated direct applications of technology in agriculture, health, and tourism. New technologies from telemedicine capabilities to multimedia communication and the use of on-line services in agribusiness and tourism were presented. By addressing problems in health and agribusiness, these demonstrations underscored the importance of telecommunications in achieving the social goals of the Summit of the Americas.

In support of the telecommunications programs, experts from Northern Telecom, AT&T, Price Waterhouse, MIGA, OPIC, and the Inter-American Finance Corporation emphasized the economic and regulatory reforms required to enable creative applications of telecommunications technology.

#### Agribusiness

The 1995 Hemispheric Conference on Agribusiness generated high interest from conference participants. At the Agribusiness "kickoff breakfast," U.S. Department of Agriculture Deputy Under Secretary James Schroeder underscored the importance of private sector input to negotiations for free trade. Carlos Aquino González, Director General of the Inter-American Institute for Cooperation on Agriculture, spoke to a luncheon crowd on the transformation of agriculture to a global industry, encouraging action from private and public sector alike.

Experts spoke on sanitary, phytosanitary, and food safety regulations and the rising concern that regulations will replace tariff barriers as the major obstacle to agricultural trade. A representative from the World Trade Organization joined consultants and government officials to discuss potential changes in development and enforcement of regulatory standards. Further suggestions for advancement of agribusiness were generated by representatives from academia and the private sector. The sessions combined to create a program rich in content and diversity. Private sector participants recognized the opportunity to bring these and other



photo: M. Lassanyi

**Ellen McCloskey of the Food Industries Division, ICD, provides service at the 1995 USDA/NAL exhibit.**

recommendations forward to the March Business Forum and Trade Ministerial meeting in Cartagena.

A special Expo-Hall Demonstration of AgriNet Americas complemented program discussion on telecommunications technology and agribusiness. Discussion focused on descriptions of existing technologies and examples of their useful application, such as the comprehensive approach taken by the Canadian Government in support of Canada's agricultural export industry.

Visit the C/LAA home page for updates on both the 1996 and 1995 conferences:

<http://www.milcom.com/claa>

For additional information and the 1997 conference brochure contact:

*Caribbean/Latin American Action*

1818 N Street, N.W., Suite 310

Washington, DC 20036

Telephone: 202-466-7464

Fax: 202-822-0075

— Mary Lassanyi, ATMIC Coordinator, NAL and Jennifer Norberg, Director, Agribusiness Programs, C/LAA

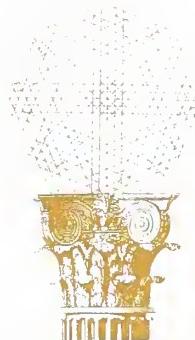
## The Computerworld Smithsonian Awards

For Heroic Achievement in Information Technology, this Award is Presented to

# *Global Change-Assisted Search for Knowledge*

In Recognition of your Visionary use of Information Technology in the Field of

## *Government and Non-Profit Organizations*

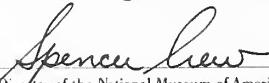


John G. McTigue

Chairman of International Data Group



President and Publisher of Computerworld



Spencer Hawes

Director of the National Museum of American History,  
The Smithsonian Institution

reg. no. 96271

June 4, 1996

Date

The 1996 Computerworld Smithsonian Award certificate for NAL's Global Change-Assisted Search for Knowledge database.

## NAL's GC-ASK Recognized in 1996 Computerworld Smithsonian Award

On Tuesday, June 4, 1996, the Smithsonian Institution formally presented its 1996 Collection of Information Technology Innovation. The National Agricultural Library's database Global Change-Assisted Search for Knowledge (GC-ASK) was one of 341 nominations, representing 39 states and 18 foreign countries, for the 1996 Computerworld Smithsonian Award (CWSA). An independent panel of three judges selected five finalists and one winner in each

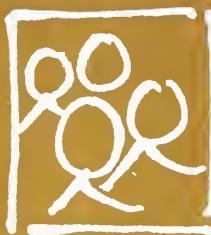
category. GC-ASK was in the Government and Non-Profit category.



The GC-ASK logo.

Although GC-ASK was not among the finalists, managers of the database were invited to the Computerworld Smithsonian Award ceremony, and Roberta Rand received a gold medal in recognition of the project. The materials and information submitted by NAL are now archived at the Smithsonian Institution and is part of the Permanent Research Collection. The collection including the case study is available over the WWW at:

<http://innovate.si.edu>



## Staff Update

### Stephens Retires

**X** On May 24, 1997, Terry Stephens retired with over 25 years of government service. She had served as a secretary in the director's office of the library for nearly nine years. Stephens joined the NAL staff in July 1987 and was secretary to associate and assistant directors of NAL. She also was, for a number of years, the computer liaison for the administrative offices of the library, and in her last months before retirement Stephens was detailed to the Information Systems Division as a secretary and to the Public Affairs Office to help with an *ALIN* photography project.

Before coming to NAL, Stephens was secretary to the director of the Beltsville Area of the Agricultural Research Service for 3 years. Prior to her USDA service, she was a Congressional liaison assistant and secretary in



photo: J. Swab

Terry Stephens

the Department of Commerce, Census Bureau, for a total of about 14 years.

—Joseph N. Swab



photo: D. Starr

Roberta Rand

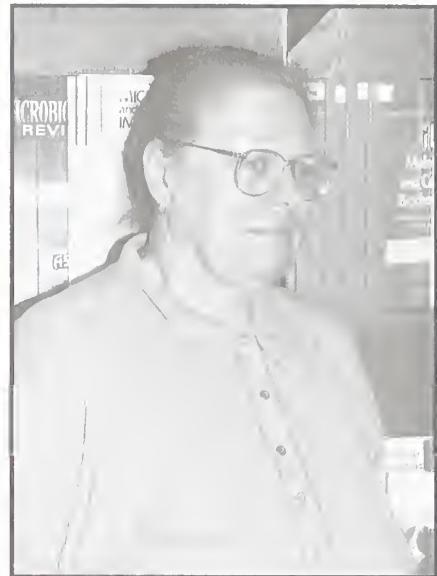


photo: J. Swab

Evelyn Brownlee

### Brownlee Retires

Evelyn Brownlee, a reference librarian at the National Agricultural Library, retired on August 2, 1996, after more than 25 years at NAL.

Brownlee began her library career at the Institute for Defense Analyses where she began as a clerk typist for the Head Cataloger and worked her way up to be Head Cataloger of Classified



photo: J. Swab

Gary McCone, Associate Director for Automation, presents a retirement certificate to Terry Stephens at her retirement party.

Documents. In 1969, after passing the Educators/Librarian test administered by the Civil Service Commission she accepted an appointment to the U. S. Naval Ordnance Systems Command as the Acquisitions Librarian. She also assisted the Reference Librarian at NAVORD. In the evenings she attended classes at the Graduate School of the USDA and was awarded a Certificate for Library Technician.

In 1971 Brownlee joined the NAL staff as a librarian in the Current Serials Records Section, and soon she moved to acquisitions work in the Selection Section. In 1973 she transferred to the former D.C. Branch in USDA's South Building where she spent several years doing reference, acquisition, interlibrary loan, and other collateral duties. In 1984 she returned to Beltsville to the position in the Reference Section from which she retired. Since retirement, Brownlee has been a volunteer at NAL's D.C. Reference Center.

—Joseph N. Swab

in the High Point High School's Least Restrictive Environment (LRE) Program, which offers mentally challenged youth the opportunity to gain work experience and skills in a real work environment in an effort to maximize their skills and lead them to an independent life. The primary goal is to have all the students employed within the community, and, ideally, the training site would eventually provide a permanent position for the student.

Raymond Williams, the LRE student at NAL, is working in the Rural Information Center (RIC). A vocational counselor or teacher worked with Williams one-on-one until he was able to work independently. Thereafter RIC staff directed his tasks. After several months, the entire Information Centers Branch (ICB) began supplying projects for him, including: collating information packets, stuffing envelopes for mailing, photocopying, stamping envelopes, recycling white paper, and many other projects.

In the summer of 1996, Williams worked at NAL through the Prince George's County Private Industrial Council program, which provides a salary for participants. During that time he also assisted the Document Delivery Services Branch with projects similar to those he completed for ICB. Williams resumed work at NAL under the LRE Program in September.



photo: D. Starr

Joanne Metcalf

## Retirement of Joanne Metcalf

On December 12, 1996, Joanne Metcalf, Secretary of the Indexing Branch, retired after almost ten years of dedicated service at NAL. Joanne was a very competent secretary, extremely industrious, friendly, forever cheerful, and always willing to help in whatever way possible. She was an exemplary employee. On her last day,

## NAL Provides Training Opportunity

by Melanie Gardner, RIC, NAL

In the fall of 1995, the National Agricultural Library became a participant

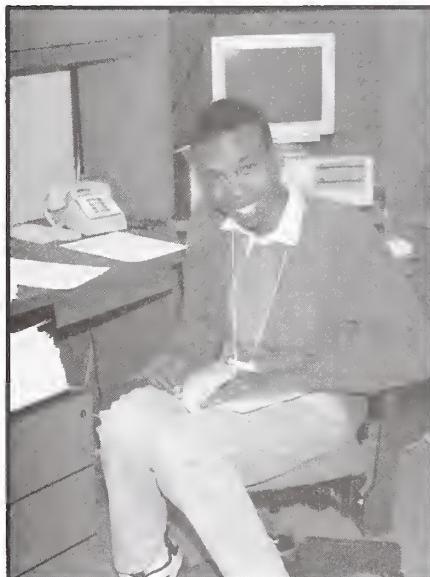


photo: J. Swab

Raymond Williams



photo courtesy of R. Criscio

Ruth Criscio (R) with her running partner, Renée Culbertson at the starting area of the 1996 Boston Marathon.



photo: S. Cheney

A group of administrative and clerical staff had a reception for Joanne Metcalf at her retirement. (L-R) Doris Richardson, Ann McGarvey, Maria Archer, Jannette Shuford-Hall, Marion Carroll, Mary Silva, Shirley Evans, Terry Brady, Phyllis Bickerton, Joanne Metcalf, Ruth Criscio, Ann Palms, Evelyn Jones, Diana Lemon, Shirley Edwards (Joanne's supervisor), and Nelsie Jameson.

Joanne was honored with a luncheon and numerous gifts. Joanne and her husband, Hugh, have returned to their native Colorado. She will be greatly missed by all her friends at NAL. We wish Joanne happiness and health in retirement.

— Shirley Edwards  
Head, Indexing Branch

## NAL Marathon Runners

Most people who dream of running glory are Walter Mitty types whose glory resides in dreams alone. For two NAL staffers the glory is not vicarious, for they have known the victory of crossing the finish line in the marathon.

In the spring Ruth Criscio ran the Boston Marathon, and in the fall Robert Anderson ran the Marine Corps Marathon.

Ruth Criscio, who has been the Secretary for the Animal Welfare Information Center (AWIC) since 1991, ran the 26.2-mile Boston Marathon on Monday, April 15, 1996, in an actual time of 4 hours, 9 minutes, 12 seconds. Since all of the 38,000 official runners wore an electronic chip which signaled electronic devices at the start, finish, and mid-points in the course, two times were recorded for each runner, an official time and an actual time. The actual time was measured from the moment the runner crossed the starting line until crossing the finish line (official time was measured from the time the race began till crossing the finish line, but only those individuals at the starting line the moment the race began could have identical official and actual times, but all runners got accurate actual times). At the end of the race the runners return their chips in exchange for their medals. Ruth placed 4670 among the 8497 women completing the race, and finished in the middle of time



photo courtesy of R. Criscio

Ruth Criscio with her medal and her space blanket after finishing the 100th Boston Marathon in just over 4 hours.



BOSTON MARATHON  
April 15, 1996  
Marathon Foto

photo courtesy of R. Criscio

Official photograph of Ruth Criscio and her running partner, Renée Culbertson, crossing the finish line of the 100th Boston Marathon. They were part of the team of the Montgomery County (MD) Road Runners Club.

scale, since the longest times were over 8 hours for the women and just under 8 hours for the men. Ruth crossed the finish line with her running partner, Renée Culbertson, a fellow member of the Montgomery County (MD) Road Runners Club.

This was the 100th annual Boston Marathon, for which Ruth Criscio

qualified by completing the Marine Corps Marathon in Washington, D.C., in the fall of 1995. She had completed two previous Marine Corps Marathons in 1991 and 1994. Ruth contemplates running future marathons in other cities, beginning with the Twin Cities Marathon (Minneapolis-St. Paul) in 1997.

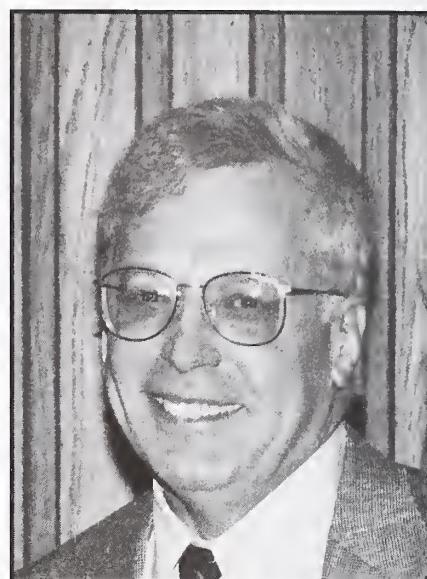


photo: J. Swab

Robert Anderson

Bob Anderson, who is a librarian in the Educational Programs Unit of the Reference and User Services Branch, and who has been a member of the NAL staff since 1983, ran in the Marine Corps Marathon in Washington, D.C., October 27, 1996. This was Bob's first marathon and he completed the 26.2 miles with a time of 5:13. He placed approximately 13,000 among the 18,000 official runners. Bob worked his way up to the marathon by running in about ten road racing events last year, including four 10-kilometer runs, a half-marathon, and two 10-mile runs. He has also participated in a half dozen duathalons, which consist of a 3-mile run, followed by 15 to 20 miles by bicycle, followed by another 3-mile run. He is training for his first sprint triathlon, a swimming, biking, and running event, with the Tri-Maryland Club, and hopes to run in the fall 1997 Marine Corps Marathon with a better time.

The staff of the National Agricultural Library joined with AWIC and Reference in proclaiming Ruth's and Bob's accomplishments under the banner headline — "We're proud of our marathon medalists!"

— Joseph N. Swab



## Special Events of FY 1996

### American Poultry Historical Society Poultry Hall of Fame

by Raymond D. Schar  
Volunteer, Acquisitions & Serials  
Branch, NAL, and Retired Poultry  
Scientist, ARS

In January 1952 at the Boston Poultry Show, a few people met informally and organized a committee to discuss the possible formation of a poultry historical organization. In June of 1952 this committee met in New York City and organized the American Poultry Historical Society (APHS). It was subsequently incorporated under Illinois laws as a non-profit organization.

The stated purpose of the APHS was to find, collect, and preserve records, printed materials, and other objects connected with the development of the poultry industry in America, to make available its great history to this and future generations, and to recognize and honor persons for outstanding achievement or leadership in the industry.

To carry out the objectives of the Society, the following program was developed:

1. Obtain valuable historical objects and pictures and assure their permanent protection in appropriate archives.
2. Provide facilities for the suitable display and preservation of all historical material obtained.
3. Prepare biographies and descriptions of outstanding developments that are likely to be of historical interest. Also to make sure information is available to interested persons.
4. Honor, with Hall Of Fame status, the most outstanding poultry persons

of North America, with their portraits and accomplishments being displayed in a prestigious setting.

5. Recognize other outstanding poultry leaders whose careers and contributions have had significant and lasting impact on the poultry industry of this continent, with their names to be inscribed on a status list.

6. Recognize (via the Historical Activity Award presented biannually), individuals who have exhibited leadership and given assistance in stimulating interest in preserving the heritage of the poultry industry.

At the annual meeting of the APHS in 1953, plans were developed for a Poultry Hall of Fame. Portraits of the

selected honorees were to be prominently displayed, together with identification of their contributions to the poultry industry. Selections were to be made on a triennial basis. From 1954 to 1970 these portraits were displayed in Jull Hall, University of Maryland. In 1970 the Poultry Hall Of Fame was moved to the National Agricultural Library in Beltsville, Maryland.

Because of some-what limited wall space on which to exhibit the various-sized portraits at NAL, the Hall of Fame Committee decided to reduce each of the oil or photo portraits to a standard-sized, etched, metal plaque bearing the likeness of the honoree. This would permit the APHS to add the



photo: D. Starr

1995 Poultry Hall of Fame Honorees: (L-R) Harold E. Ford, Roland C. Hartman, James T. Hudson, Jim Perdue for Franklin P. Perdue, and John Fuller for Arne W. Nordskog.



Kenneth May

photo: D. Starr



Bill McPherson

photo: D. Starr



Richard D. Reynnells

photo: D. Starr



Jackie Stewart

photo: D. Starr



photo: D. Starr

NAL staff and retirees honored by the APHS: (L-R) Rae Dubois, Cam Calvert (volunteer), Ray Schar (volunteer), Ron Young (Young also accepted for Alan Fusonie), Mary Silva, and Pam André (for Joseph Howard).

plaques for newly inducted honorees to the display in the available space at NAL for many more years.

With the induction of the five 1995 honorees at a ceremony at NAL at the beginning of FY 1996, a grand total of 72 men and women have been named to the Poultry Hall of Fame. The 1995 inductees included:

Harold E. Ford, Retired; Executive Vice President of Southeastern Poultry and Egg Association.

Roland C. Hartman; Long-time poultry journalist and founder of *Poultry Digest Magazine*.

James T. Hudson; Leading poultry processor; founder and president of Hudson Foods, Inc.



Robert Hogue

photo: D. Starr



Mr. Hudson

photo: D. Starr

APHS, introduced Roland Hartman; James Hudson's son introduced his father; John Fuller spoke about and accepted for Arne Nordskog; and Jim Perdue spoke about and accepted for his father Franklin P. Perdue.

Another part of the ceremony included the presentation of Certificates of Appreciation to the following current and retired NAL personnel: Rae E. Dubois, Ronald B. Young, Alan Fusonie, Joseph Howard, and Mary Silva, for their part in preserving poultry history. Certificates were also given to Raymond D. Schar and Corlette C. Calvert for their volunteer efforts in organizing the documents, journals, pictures, and other historical items which have been donated by individuals, companies, APHS, and other poultry organizations.

### Poultry Hall of Fame Portrait Gallery

In 1995 the American Poultry Historical Society converted all of the portraits of the 72 members of the Poultry Hall of Fame, which were in a variety of media from oil paintings to photographs and in various sizes ranging from about 8 by 10 inches to more than 3 by 4 feet, to a uniform format. The new portraits are etched in black on a metal plate with a gold-like finish. The metal plate is mounted on a wood plaque that also forms a frame. Below each portrait is a biographical paragraph which also specifies the contribution of the subject to poultry science and/or industry. The name of the subject, birth (and death) dates, the name of the society, and the year of induction into the hall of fame are given in bold lettering. The entire Poultry Hall of Fame is now mounted in the second floor hallway of the National Agricultural Library, and can be viewed by visitors from 8:00 a.m. to 4:30 p.m., Mondays through Fridays (except Federal holidays).

### Saglio Visits Poultry Hall of Fame

In October 1996, Henry Saglio, who was inducted into the Poultry Hall of Fame nearly twenty years ago in 1977, visited NAL and the Hall of Fame. Susan Fugate, Head of NAL Special

Collections, showed him the gallery of portraits of Poultry Hall of Fame members and took photographs of Saglio holding the plaque containing his portrait and biography. The citation of Saglio states that he is "one of poultry's most foresighted leaders" who saw "the industry's need for a fast growing white feathered meat bird of superior conformation.... Saglio systematically and rapidly became a prominent poultry breeder and a leader in the National Broiler Council. He is credited as being the individual most directly responsible for the direction taken by the broiler industry." Saglio is "a hard-working, practical poultryman whose vision earned him worldwide respect and acclaim without sacrificing the common touch."



photo: S. Fugate

Henry Saglio with his portrait from the Poultry Hall of Fame.

### Perdue Visits NAL and the Poultry Hall of Fame

Franklin P. Perdue, who was among the latest group of poultry leaders inducted into the Poultry Hall of Fame, visited NAL with his wife Mitzi Perdue in 1995. The primary purpose of their visit was to become acquainted with the library's holdings of poultry-related literature, artifacts, and historical materials from both the general collections and especially Special Collections. NAL staff arranged a display of materials and a tour. The Poultry Hall of Fame was among the highlights of the tour. In addition to poultry materials, the Perdues also examined a variety of materials related to exotic species of birds and botanical art.

Mitzi Perdue, who decorates eggs with various jewels, fabrics, and other ornamental materials in an art inspired by the Russian Fabergé eggs, showed some of her creations to NAL staff. Mitzi Perdue subsequently utilized NAL for part of her research for her recently published volume, *EggScapes™, Creating Imaginary Landscapes and Seascapes Inside Eggs*.

(See photographs on the following page.)

Joseph N. Swab contributed to this article.

## Surplus Symposium Proceedings Available

Single copies of the *Proceedings of the National Poultry Waste Management Symposium* for the years 1993-1996 are available to universities, both U.S. and foreign, from the address indicated. A limited number of copies for 1992 may also be available.

Richard D. Reynnells  
NPL, Poultry Science  
USDA/CSREES/PAPPP  
Room 342 Aerospace Center  
901 "D" Street, SW  
Washington, DC 20250-2260  
—Rae Dubois

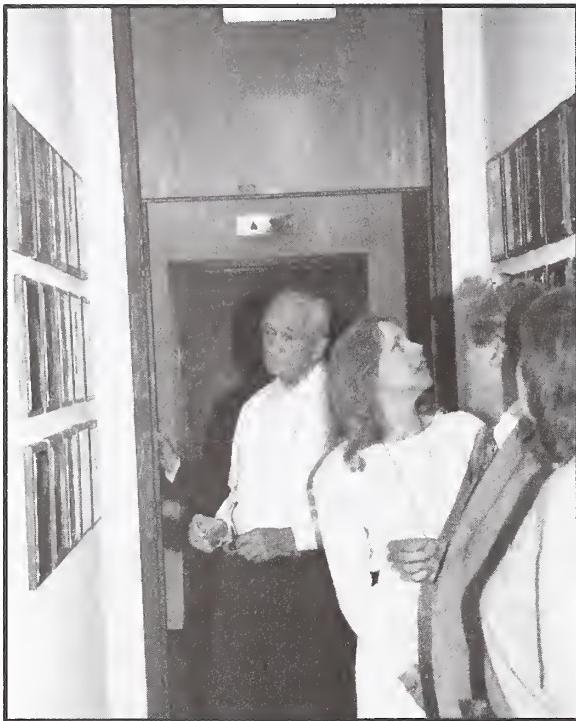


photo: J. Swab

Mr. & Mrs. Franklin P. Perdue look at the portraits and citations in the Poultry Hall of Fame. A half year later, Mr. Perdue was himself honored with induction into the Hall of Fame by the American Poultry Historical Society.



photo: J. Swab

(L-R) Keith Russell, NAL Deputy Director, Pamela André, NAL Director, Mrs. Perdue, Tom Bryant, Jr., Mr. Perdue, and Dennis Bixler, examine some encapsulated documents from NAL special collections.



photo: J. Swab

The Perdues view a display of Mitzi Perdue's decorated eggs prior to exhibiting them to some NAL staff. Mr. Perdue holds a copy of NAL's publication, *World List of Poultry Serials*.



photo: J. Swab

Mrs. and Mr. Perdue look at a rare volume from NAL's Special Collections. The book includes original water colors of exotic species of birds.

# Prince George's Women Celebrate County's 300th Anniversary

National Agricultural Library, Beltsville, Maryland, Saturday, May 4, 1996



Andrea Roane



Barbara Mikulski



Kathleen Townsend



Gloria Lawlah

Article and photographs by  
Joseph N. Swab, NAL

Among the many events during 1996 celebrating the 300th Anniversary of the founding of Prince George's County, Maryland, in 1696, was the program "Elected Women of Conviction," sponsored by the Metropolitan Prince George's County Chapter of the National Political Congress of Black Women, Inc. (NPCBW). This was one of many official county celebrations and one of several held on the premises of the National Agricultural Library (See the reports on the kickoff event in the June-August 1996 *ALIN*, Vol. 22, Nos. 6-8, pages 24-28).

Andrea Roane, popular news an-

chor from WUSA-TV, Channel 9, Washington, DC, as Mistress of Ceremonies, introduced the speakers and guests.

Keith Russell, Deputy Director of NAL, welcomed the participants to the library, and invited them to tour the reading rooms and the exhibit areas, pointing out in particular the special exhibit on *B.T. Galloway & the Bureau of Plant Industry* (See the report on the Galloway Exhibit in the June-August 1996 *ALIN*, Vol. 22, Nos. 6-8, pages 18-23) in the Special Collections Reading Room on the 14th Floor and the lobby exhibits of rare books, documents, photographs, and artifacts from NAL's Special Collections related to the history of USDA agencies working

in Prince George's County.

Speakers from the Prince George's Chapter of the NPCBW included Queen Gladden, Chair, who spoke about the occasion of this celebration and at the end made closing remarks, Jervie Petty, Second Vice Chair, who greeted the members and guests, and Sabreena Geddie of the Planning Committee. The Invocation was given by the Rev. Barbara Ridley, Associate Minister, Ebenezer A.M.E. Church, Fort Washington, MD. A major part of the program consisted of presentation and recognition of a group of honorees, 47 women who were serving in all levels of government as elected officials.

Invited speakers were Barbara



Queen Gladden



Jervie Petty



Sabreena Geddie



Keith Russell



The "Elected Women of Conviction" program was held in the NAL lobby. Here Rev. Barbara Ridley leads the invocation.

Mikulski, U.S. Senator from Maryland, Kathleen Kennedy Townsend, Lieutenant Governor of Maryland, Gloria Lawlah, Maryland State Senator, and Dr. C. DeLores Tucker, Honorary Chair and National President of the National Political Congress of Black Women (who was unable to attend and sent a message through Ms. Gladden). Each of the speakers spoke in turn about accomplishments and programs of interest to women in their particular

areas of public service, and all congratulated the honorees being recognized at this event.

In addition to the invited speakers, the honorees included 8 delegates to the Maryland legislature, 3 County Council women, 6 judges and 2 court officials, 5 members of the County Board of Education, 3 mayors, 10 members of the Democratic Central Committee, and 6 members of the Republican Central Committee. Distinguished women and men among the attendees were also introduced.

The program was followed by a reception. A group of 17 sponsors and 16 benefactors and patrons included the National Agricultural Library, local businesses and academic organizations, and individuals.



The honorees and elected women recognized at the "Elected Women of Conviction" program held at NAL.

A group of members of the Metropolitan Prince George's Chapter of the National Political Congress of Black Women, Inc., who served on or worked with the Event Planning Committee.

(Right) Honorees at the program "Elected Women of Conviction" held by the Metropolitan Prince George's County Chapter of the National Political Congress of Black Women at the National Agricultural Library in conjunction with the 300th Anniversary of Prince George's County, Maryland.



NAL Deputy Director, Keith Russell, who welcomed the Prince George's women to the library, and Andrea Roane, popular news anchor from WUSA-TV, Channel 9, Washington, DC, who served as Mistress of Ceremonies.



photo: J. Swab

Deborah Richardson,  
who organized and coordinated NAL's  
USDA Technology Demonstration Day.  
(See the following page.)

## USDA Technology Demonstration Day

On Thursday, April 25, 1996, the National Agricultural Library hosted a Technology Demonstration Day for USDA. Employees from USDA agencies throughout the metropolitan Washington, D.C., area were invited to NAL for a day of technology demonstrations. Each presentation, in the library's 14th Floor conference room, lasted about 45 minutes, including time for questions. In addition, the NAL information centers and some of the presenters had set up exhibits on the 14th Floor and in the NAL lobby on the main floor. As a bonus to the serious activity, door prizes were given to a lucky attendee at each of the nine sessions. Deborah Richardson, Head of the Educational Programs Unit of NAL's Reference and User Services Branch, coordinated the Technology Demonstration Day. The demonstrations (not in the order given) and the presenters were:

- Food and Agricultural Education Information System, Peter Muscato, CSREES
- Current Research Information System, Ted Bauer & Alan Moore, CSREES
- Sustainable Agriculture Network, Andy Clark, ARS\NAL
- Global Change - Assisted Search for Knowledge, Roberta Rand, ARS/NAL
- Agricultural Genome Information System, Susan McCarthy, ARS/NAL
- USDA Economics and Statistics System, Bob Williams, ERS
- TEKTRAN, Kate Hayes, ARS/NAL
- CYFERNET, Tom Tate, CSREES
- AgNIC, Richard Thompson, ARS/NAL



Peter Muscato



Alan Moore



Robbie Rand



Bob Williams



Ted Bauer



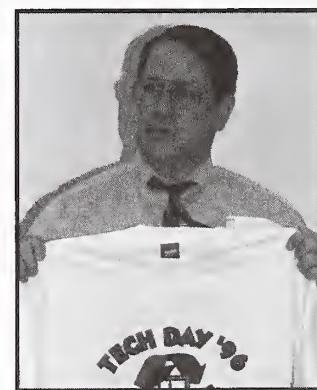
Andy Clark



Susan McCarthy



Kate Hayes



Tom Tate



Richard Thompson

## NAL Celebrates its Success at Customer Service

by Alvetta Pindell  
Head, Reference Section, NAL

Photographs by Joseph N. Swab, NAL

In 1995, the Customer Service Committee of the National Agricultural Library, under the leadership of Robyn Frank as its chairperson, initiated three surveys in response to Presidential Executive Order 12862, "Setting Customer Services Standards." Those surveyed were in three categories: federal users [42% response rate], non-federal users [21% response rate] and agricultural librarian users [45% response rate]. The data collected showed overwhelmingly that the National Agricultural Library's customers experienced great satisfaction in their dealings with NAL staff. Clearly the NAL staff is first rate. (See "NAL Rated Favorably by Customers" and related survey summaries in *ALIN*, volume 21, numbers 11-12, November-December 1995, pages 1-3).

To commend and congratulate the staff on their generally excellent ratings by the NAL customers, Alvetta Pindell, Acting Chairperson of the Customer Service Committee, coordinated a celebration held on

May 2, 1996, in the NAL Lobby. NAL employees enjoyed food and music, participated in games, and received prizes.

The celebration featured a brief formal program in which Pamela André, NAL Director, and Gypsy Banks, Office of the Secretary, Coordinator, USDA Customer Service Team, congratulated the staff and stated the importance of their continuing to provide excellent service. Joseph Hall of the Human Nutrient Department in the Beltsville Agricultural Research Center (BARC) "East Side" sang. He also read poems from one of his books, "True Poems About Life."

The staff perused and enjoyed several special exhibits and displays. Hundreds of photographs from the *ALIN* archives by Joe Swab, Dan Starr, Brian Norris, and others, most of which had never been shown before and had not been used in the newsletter, were arranged and mounted on three exhibit panels by Ellen Nollman and Nelsie Jameson. Karl Schneider mounted and presented a selection of agricultural cartoons. Two notebooks containing samples of the numerous letters and notes of thanks received by NAL units were available for



Alvetta Pindell



Pamela André



Gypsy Banks



NAL staff listening to the formal presentations at the NAL Customer Service Celebration.



Joseph Hall



More of the NAL staff at the program during the Customer Service Celebration.

staff to share. In addition, in the large exhibit case in the Lobby, there was a depiction of the processes used to provide information for the customer showing the involvement of all NAL units.

This celebration does not end NAL's customer service program. Among the survey responses, not only were the stated questions answered, but many personal responses and observations were given in the area provided for comments. These were recorded and tabulated to show specific trends as well as to see which of them could be remedied quickly and easily. For example, several respondents noted that the lighting in the Main Reading Room was poor, especially on cloudy days in the area where skylights provided a portion of the lighting. NAL Management immediately took steps to upgrade and increase lighting in these areas with special attention to modernizing the lighting near the skylights so that patrons would not be dependent on the sun's intensity for light. Another example was that the printers in the Main Reading Room were too noisy. NAL quickly took steps to purchase ink-jet and laser printers which are quieter, more efficient and provide a sharper, clearer product. Many customers were

concerned with the gaps in their knowledge about the electronic services of the NAL. Now they can consult the brochure, "NAL: Electronic Access," which enumerates the more than 25 access points and electronic services that one can expect from the various areas in the Library. Many remarks were received regarding the quality and quantity of photocopiers. Related comments included the need for book trucks for the customers to use in transporting materials around the



Brian Norris & Pam André at the NAL Customer Service Exhibit.

library and the need for a heavy-duty stapler. Special effort was made to address these needs: a book-edge copier and a heavy-duty stapler were purchased and placed in appropriate locations, and additional book trucks have been made available to patrons during their on-site visits. These improvements are just the beginning of NAL's efforts to provide an improved research environment for library customers.



(Clockwise from left)

Viewing the cartoons, "Humor from NAL"; Viewing the photographs, "NAL at Work"; Scott Leonard towers over Verna Shen and Terrence Smith and Shannon Smith; Viewing the prizes, Carolyn Thurman and others; and the refreshments.





## New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all QB's include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the Library and its Information Centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to:

Reference Branch, Room 100  
National Agricultural Library,  
USDA, ARS  
10301 Baltimore Avenue  
Beltsville, MD 20705-2351

As of June 1996, listings also include NAL bibliographies and miscellaneous publications AVAILABLE ELECTRONICALLY ONLY. These are listed separately as "Electronic Publications," and are available at NAL's World Wide Web site on the Internet at the URLs specified or through the menu on NAL's home pages. Many NAL publications announced in previous issues of *ALIN* are also available on the Internet, and new publications frequently are made available electronically soon after announcement in *ALIN*. To find them use the

menus in the NAL World Wide Web pages for each library branch or information center, or the listing "Other NAL Information Products" under "How to Access the Collection." The URL for NAL is:

<<http://www.nal.usda.gov>>

## Quick Bibliographies

**Q.B.-96-06.** Solar Energy Alternatives for Agriculture, May 1993-June 1996. 259 citations; languages: none excluded. Compiled by Susan Chapman. Reference Section. August 1996. Updates Q.B. 93-33.

**Q.B.-96-07.** Ginseng, January 1984-March 1996. 217 citations in English. Compiled by Jerry Rafats. Reference Section. August 1996. Updates Q.B. 90-32.

**Q.B.-96-08.** Alternative Farming Systems — Economic Aspects, March 1993-June 1996. 693 citations; languages: none excluded. Compiled by Karl Schneider. Reference Section. September 1996. Updates Q.B. 93-17.

**Q.B.-96-09.** Biotechnology: Patenting Issues, January 1990-July 1996. 134 citations in English. Compiled by Raymond Dobert. Biotechnology Information Center. September 1996. Updates Q.B. 93-20.

**Q.B.-96-10.** Biotechnology: Commercialization and Economic Aspects, January 1993-June 1996. 151 citations in English. Compiled by Scott A. Leonard and Raymond Dobert. Biotechnology Information Center. September 1996. Updates Q.B. 94-20.

**Q.B.-96-11.** Alternative Crops, July 1993-June 1996. 120 citations; lan-

guages: none excluded. Compiled by Karl R. Schneider. Reference Section. September 1996. Updates Q.B. 93-53.

**Q.B.-96-12.** Soil Testing and Plant Analysis for Fertilizer Recommendations, March 1993-June 1996. 148 citations; languages: none excluded. Compiled by Karl R. Schneider. Reference Section. September 1996. Updates Q.B. 93-54.

**Q.B.-96-13.** Shiitake: Cultivated Mushroom, January 1970-June 1996. 177 citations in English. Compiled by Jerry Rafats. Reference Section. September 1996. Updates Q.B. 90-54.

**Q.B.-96-14.** Herbicide Tolerance/Resistance in Plants, January 1991-June 1996. 189 citations in English. Compiled by Scott A. Leonard and Raymond Dobert. Biotechnology Information Center. September 1996. Updates Q.B. 94-60.

**Q.B.-96-15.** Viral Resistance in Plants/Viral Coat Proteins, January 1991-July 1996. 181 citations in English. Compiled by Raymond Dobert. Biotechnology Information Center. September 1996. Updates Q.B. 91-81.

## Special Reference Briefs

**SRB-96-06.** Herbs and Herb Gardening: An Annotated Bibliography and Resource Guide. Compiled by Suzanne DeMuth. Alternative Farming Systems Information Center. August 1996. 91p.

**SRB-96-07.** Organic Production: Recent Publications and Current Information Sources. Compiled by Mary V. Gold. Alternative Farming Systems Information Center. September 1996. 30p.

**SRB-96-08.** Biotechnology: Education and Training. Compiled by Raymond Dobert. Biotechnology Information Center. September 1996. 50p. Updates SRB 92-05.

## Rural Information Center Publication Series

**R.I.C.P.S.-50.** A Guide to Funding Resources. Revised Edition.

Compiled by Katherine St. John. Rural Information Center. September 1996. 64p.

**R.I.C.P.S.-51.** Downtown Revitalization. Revised Edition. Compiled by Kenneth T. Wright, III. Rural Information Center. September 1996. 42p.

**R.I.C.P.S.-52.** Federal Funding Sources for Rural Areas: 1996. Revised Edition. Compiled by M. Louise Reynnells. Rural Information Center. September 1996. 138p.

## Miscellaneous

*Food and Nutrition Resource Guide for Homeless Shelters, Soup Kitchens, and Food Banks.* Prepared by Andrea T. Lindsey. Food and Nutrition Information Center. September 1996. 186p.

*A Lasting Legacy: FDR, Agriculture and Rural America; A Selected Bibliography.* Compiled by Susan Chapman. Reference Section. September 1996. 9p. [Prepared for the U.S. Department of Agriculture Exhibit on Franklin D. Roosevelt and Agriculture, USDA Patio, October 1996.]

## Electronic Publications

Copies of the following publication(s) from the Food and Nutrition Information Center are accessible electronically only. The URL address is: <<http://www.nal.usda.gov/fnic/>>

*Audiovisuals about Basic Nutrition.* Compiled by Anna Arrowsmith. September 1996. 14p.

*Audiovisuals about Nutrition and Diabetes.* Compiled by Anna Arrowsmith. September 1996. 5p.

*Audiovisuals about Nutrition and a Healthy Heart.* Compiled by Anna Arrowsmith. September 1996. 3p.

*Audiovisuals about Weight Control.* Compiled by Anna Arrowsmith. September 1996. 6p.



## Serial Gaps in NAL's Collection

The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We would appreciate your donation of the following publications needed to complete NAL collections. If you have questions, contact:

Win Gelenter, (301) 504-6573

TDD/TTY: (301) 504-6856

FAX: (301) 504-5243; or

Internet/E-mail:

wgelente@nal.usda.gov

Send items to:

Acquisitions/Serials Branch

Attn: W. Gelenter, Room 002

National Agricultural Library

ARS, USDA

10301 Baltimore Avenue  
Beltsville, MD 20705-2351

*Advances in Botanical Research.* Academic Press: v. 2, 1975; v. 3, 1976.

*DNA Sequence: the Journal of DNA Sequencing and Mapping.* Harwood Press: v. 1(1), 1990; v. 4(3), 1993-94.

*Experientia: Interdisciplinary Journal for Life Sciences.* Verlag Birkhäuser: v. 47(3), 1991; v. 49(9), 1993; v. 50, 1994.

*Plant Science.* Elsevier: vols. 90-96; vols. 98-99; v. 102.



*Advances in Nitrogen Heterocycles.* Greenwich, CN: JAI Press. Annual. Vol. 1 (1995)-  
QD401.A26

*Alabama's Treasured Forests.* Montgomery, AL: Alabama Forestry Commission. Quarterly. Fall 1982-  
SD144.A2A43

*American Recycling Market ... Annual Directory & Buyers' Guide: ARM.* Odgensburg, NY: Recycling Data Management Corporation. Annual. 1993-  
HD9975.U5A44

*Annual Report / Animal Research*

*Review Panel, New South Wales.* Orange, NSW: NSW Agriculture, Animal Welfare Branch. 1988-  
HV4890.A5N492

*Annual Report / Department of Biological and Agricultural Engineering.* [Baton Rouge]: Louisiana State University Agricultural Center, Louisiana Agricultural Experiment Station. Annual. 1992-  
S541.5.L8A4

*Apple News / International Apple Institute.* McLean, VA: The Institute. Irregular. Vol. 22, no. 26 (June 30, 1992)-  
HD9259.A6N37

*Applications! / Auburn University,*

- Silvicultural Herbicide Cooperative.* [Auburn] AL: School of Forestry, Auburn University. 96-1-  
SB951.4.A67
- Archivio geobotanico: International Journal of Geobotany, Plant Ecology and Taxonomy.* Pavia: University of Pavia. Two no. a year. 1(1) (1995)-  
QK101.A73
- Australian Journal of Entomology.* Canberra, A.C.T.: Australian Entomological Society. Quarterly. Vol. 35, pt. 1 (29 Feb. 1996)-  
QL487.A87
- Banana and Plantain Directory of Researchers.* Montpellier, France: INIBAP. Biennial. 1994-  
SB379.B2B363
- The Barth Report: Hops.* Nuremberg: Joh. Barth & Sohn. 1994/95-  
SB317.H64B37
- California Weed Science Society.* Conference. Proceedings .... Fremont, CA: The Society. Annual. 46th (Jan. 17, 18 and 19, 1994)-  
SB612.C2C35
- CGIAR News [Computer File] / Consultative Group on International Agricultural Research.* [Washington, DC]: The Group. 3 or 4 times a year. Vol. 1, no. 1 (Oct. 1994)-  
S494.5.S86C45  
<<http://www.worldbank.org/html/cgiar/CGIAR%5FTOC.html>>
- Documentos IAC / Governo do Estado de São Paulo, Secretaria de Agricultura e Abastecimento, Coordenação da Pesquisa Agropecuária, Instituto Agronômico.* Campinas, SP: O Instituto. Irregular. N.1- 1985-  
S475.B62S36
- Economics Paper / CIMMYT.* Mexico, D.F.: CIMMYT. Irr. 5- 1992-  
SB190.3.C55
- External Trade Statistics Digest / [Prepared by the Trade Statistics Unit, Department of Customs and Excise].* Gaborone [Botswana]: Central Statistics Office: Obtainable from the Govt. Printer. Quarterly. 2nd Quarter 1993-  
HF3906.A24
- The Federal Internet Source: A Directory of Nearly 300 Sources of Government Information on the Internet and How to Find and Use Them.* Washington, DC: National Journal, Inc. and NetWeek, Inc. Semiannual. Fall 1994-  
TK5105.875.I57F43
- General Technical Report SRS / United States Department of Agriculture, Forest Service, Southern Research Station.* Asheville, NC: The Station. Irregular. 1- 1995-  
aSD143.G46
- Georgia Poultry Survey.* Athens, GA: Cooperative Extension Service, College of Agriculture, University of Georgia. Annual. 1990-  
HD9437.U63G47
- Great Britain. Directorate of Fisheries Research. Fisheries and the Marine Environment Policy Support and Research.* Lowestoft, [England]: Ministry of Agriculture, Fisheries, and Food, Directorate of Fisheries Research. Biennial. 1991/92-  
SH332.2.G7G74
- Human Dimensions Quarterly.* University Center, MI: Consortium for International Earth Science Information Network. Quarterly. Vol. 1, no. 1 (Winter 1994)-  
GE149.H86
- ICARDA Caravan: Review of Dryland Agriculture. [International Center for Agricultural Research in the Dry Areas Caravan.]* Aleppo, Syria: ICARDA. Quarterly. Issue no. 1 (Autumn 1995)-  
S612.I33
- INDEC informa.* Buenos Aires, Argentina: Instituto Nacional de Estadística y Censos. Monthly. Vol. 1, no. 1 (feb. 1996)-  
HA941.I57
- Index of Research Reports of the Republic of China.* Taipei: Science and Technology Information Center, National Science Council, Republic of China. Annual. Vol. 1 (June 1995)-  
Z7401.I38
- Insect Pest Management Guide for*
- Iowa Field and Forage Crops.* Ames, IA: Iowa State University, University Extension. Annual. 1995-  
SB950.3.I8I67
- International Pig Topics.* Driffield, North Humberside, England: Positive Action Publications, Ltd. Eight no. a year. 1990-  
SF391.I58
- Iowa Seed Science.* Ames, IA: Seed Science Center, Iowa State University. 2 or 3 no. a year. Vol. 1, no. 1 (June 1979)-  
SB113.2.I69
- The Italian Journal of Zoology.* Modena: Unione zoologica italiana. Quarterly. Vol. 63, no. 1 (1996)-  
QL1.B55
- Járművek, építőipari és mezőgazdasági gépek: a Gépipari Tudományos Egyesület műszaki folyóirata.* Budapest: Egyesület. Monthly. 38. évf., 9. (1991. szept.)-  
TJ4.J37
- Joint Council on Food and Agriculture Sciences (U.S.). Fiscal Year ... Priorities for Research, Education and Economics / United States Department of Agriculture, Joint Council on Food and Agricultural Sciences.* [Washington, DC]: The Council. Annual. 1997-  
aS21.D2J6
- Journal of Parasitology and Applied Animal Biology.* Raipur, India: Ravishankar University. Semiannual. Vol. 1, no. 1 (Jan. 1992)-  
QL757.J68
- [Kappa Omicron Nu] Forum.* East Lansing, MI: Kappa Omicron Nu, Inc. Semiannual. Vol. 8, no. 1 (Spring 1995)-  
TX165.A1H6
- The Label [Computer File] / Cooperative Extension, University of Nebraska Lincoln, Institute of Agriculture and Natural Resources, Environmental Programs.* [Lincoln, NE]: Cooperative Extension; The Programs. Monthly. Vol. 4, no. 1 (Jan. 1992)-  
SB950.9.L332  
<<http://ianrwww.unl.edu/ianr/pat/thelabel/thelabel.htm>>

*Livestock Pest Management in Iowa for...* Ames, IA: Iowa State University, University Extension. Annual. 1995-  
SF810.A3LS84

*Minnesota Neighbors.* LaCrescent, MN: Rural Pub. Co. Monthly. Vol. 47 (Aug. 1995)-  
HD9688.U63M65

*Muang kaset.* Samutprakan: Borisat fai iditoe chamkat. Monthly. 1987-  
SB319.3.T5M8

*National Animal Ethics Advisory Committee (N.Z.). Report to the Minister of Agriculture by the National Animal Ethics Advisory Committee on its Work for the Period ...* Wellington: The Committee. Irregular. Aug. 1984-June 1989-  
HV4701.N37

*Nutrición Animal Tropical / CINA, Centro de Investigación en Nutrición Animal.* [San José, Costa Rica]: Editorial de la Universidad de Costa Rica. Semiannual. Vol. 1, no. 1 (1994)-  
SF95.4.T73N87

*Orchids: The Magazine of the American Orchid Society.* West Palm Beach, FL: The Society. Monthly. Vol. 65, no. 1 (Jan. 1996)-  
SB409.A1073

*Performance Improvement / ISPI, International Society for Performance Improvement.* Washington, DC: ISPI. Monthly (except for combined May/June and Nov./Dec.) Vol. 35, no. 7 (Aug. 1996)-  
LB1028.5.N3

*Pesticide Reports [Computer File] / OSU, Oklahoma Cooperative Extension Service.* [Stillwater, OK]: The Service. Monthly. Oct. 1995-  
SB950.9.P478

<<http://www.okstate.edu/OSU/%5FAG/asnr/ento/pestrep.htm>>

*Pochvoznanie, agrokhimiia i ekologija: PAE = Soil Science, Agrochemistry, and Ecology / Selskostopanska akademija.* Sofija: IK "Geia." Six no. a year. God. 27, knizhka 1- 1992-  
S590.P6

*Post-Soviet Geography and Eco-*

*nomics.* Palm Beach, FL: V.H. Winston and Son, Inc. Monthly (except July and Aug.) Vol. 37, no. 1 (Jan. 1996)-  
G1.S65

*Proceedings of the New Zealand Institute of Agricultural Science and the New Zealand Society for Horticultural Science Annual Convention.* Christchurch [N.Z.]: The Institute. Annual. 1992-  
S478.5.A1P76

*The Protector: News from the World Society for the Protection of Animals.* Boston, MA: The Society. Three times per year. Spring 1995-  
HV4701.P76

*Quarterly / SGM.* Spencers Wood, Reading: Society for General Microbiology. Quarterly. Vol. 22, pt. 1 (Feb. 1995)-  
QR1.S65

*Rapport (Sveriges lantbruksuniversitet. Institutionen för jordbrukets biosystem och teknologi).* Rapport = Report /JBT. Lund: Sveriges lantbruksuniversitet, Institutionen för jordbrukets biosystem och teknologi. Irregular. 90-1994-  
TH4911.A1S9

*Rural Health News.* Seattle, WA: WAMI Rural Health Research Center, Department of Family Medicine, University of Washington. Vol. 1, no. 1 (Winter 1994)-  
RA771.A1R873

*Ruralia.* Buenos Aires: FLACSO, Programa Argentina. No. 1 (oct. de 1990)-  
HD1861.R87

*Scanning Microscopy. Supplement.* Chicago (AMF O'Hare), IL: Scanning Microscopy International. Annual. 1 (1987)-  
QH212.S3S33 Suppl.

*Seed Pathology and Microbiology.* Wallingford, Oxon, UK: CAB International; Hellerup, Denmark: Danish Government Institute of Seed Pathology for Developing Countries. Annual. Vol. 1- c1990-  
SB732.8.S44

*Seerie técnica / Funda ção Cargill.* Campinas, SP, Brasil: Funda ção Cargill. Irregular. No. 1- 1989-  
S191.S47

*Specialmeddelande (Sveriges lantbruksuniversitet. Institutionen för jordbrukets biosystem och teknologi).* Specialmeddelande = Special Report / JBT. Lund: Sveriges lantbruksuniversitet, Institutionen för jordbrukets biosystem och teknologi. Irregular. 206-1994-  
TH4911.A1U6

*Taiki Kankyo Gakkaishi = Journal of Japan Society for Atmospheric Environment.* Tokyo-to: Taiki Kankyo Gakkai, Heisei 7. Bimonthly. Vol. 30, no. 3 (1995)-  
TD881.T3

*Trade Policy Review.* Slovak Republic / World Trade Organization. Geneva: The organization. Annual. 1995-  
HF1542.4.T73

*Tropical Fruit News Magazine.* Miami, FL: Rare Fruit Council International. Monthly. vol. 30, no. 1 (Jan. 1996)-  
SB359.T6

*Turf & Ornamental Reference for Plant Protection Products: T&OR.* New York, NY: Chemical and Pharmaceutical Press. Annual. 4th ed. (1995)-  
SB951.T87

*USP Dictionary of USAN and International Drug Names.* Rockville, MD: United States Pharmacopeial Convention, Inc. Annual. 1995-  
RS55.A1U2

*The Volunteer Monitor: The National Newsletter of Volunteer Water Quality Monitoring.* San Francisco, CA: The Volunteer Monitor. Semiannual. [Vol. 1, no. 1] (Fall 1989)-  
TD223.V658

*World Water and Environmental Engineering.* London: Faversham House Group. Ten no. a year. Jan./Feb. 1994-TD201.W92

# Celebrations



photos: J. Swab

(Above) Andrea Roane, Barbara Mikulski, Kathleen Kennedy Townsend, Gloria Lawlah, & Queen Gladden at NAL. For story see pages 25-27. (Below) Joseph Hall, Gypsy Banks, Pamela André, Alvetta Pindell, and Robyn Frank. For story see pages 29-31.



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